

## Associate of Applied Science Mechatronics

All first-time, full-time students must enroll in either Student Opportunities Seminar (SOS) OR Principles of Collegiate Success (PCS) as determined by entrance exam scores.

<b>Semester 1 (Fall)</b>			
<b>Course</b>	<b>Credits</b>	<b>Prerequisite ("C" or Better)</b>	<b>Milestone/Notes</b>
DATA 1123 Fundamentals of Info Tech	3	Keyboarding exam or GBUS1103 recommended	
IEMT 1303 Fundamentals of Electricity	3		Fall Only
IEMT 1213 Mechanical Devices & Systems	3		Fall Only
IEMT 2413 Industrial Safety	3		Fall Only
MECH 1103 Principles of Mechatronics	3		Fall Only
<b>Hours</b>	<b>15</b>		
<b><i>*Students should apply for the Certificate of Proficiency - Mechatronics Operation</i></b>			
<b>Semester 2 (Spring)</b>			
IEMT 1103 Wiring Methods	3	Fundamentals of Electricity	Spring Only
ELCT 1224 Digital and Electronic Circuits	4	Fundamentals of Electricity	Spring Only
MACH 1102 Basic Blueprint Reading	2	Placement score or Foundations I	Spring Only
IEMT 1203 Fluid Power (Hydraulics & Pneumatics)	3		Spring Only
ELCT 1203 Motors and Motor Controls	3	Fundamentals of Electricity	Spring Only
<b>Hours</b>	<b>15</b>		
<b><i>* Students should apply for the Certificate of Proficiency – Mechatronics Practice</i></b>			
<b>Semester 3 (Fall)</b>			
CNWT 1434 CISCO Networking I	4		Fall Only
ELCT 2324 PLCs and PLC Applications	4	Fundamentals of Electricity; Motors and Motor Controls	Fall Only
ENGL 1113 Composition I	3	Placement score or required remediation	
<i>Choose one:</i> MATH 1143 College Algebra MATH 1163 Quantitative Literacy	3	Placement score or Foundations II Placement score or Foundations I	
Mechatronics Elective	3		
<b>Hours</b>	<b>17</b>		
<b><i>*Student should apply for Technical Certificate Mechatronics Technology</i></b>			
<b><i>*Student should apply for Technical Certificate Industrial Maintenance Technology Technology</i></b>			
<b>Semester 4 (Spring)</b>			
MACH 2103 Intro to CAD	3	Basic Blueprint Reading	Spring Only
ENGL 1213 Composition II	3	Composition I	
PSYC 1113 General Psychology	3		
Mechatronics Elective	3		
Science Requirement: PHYC 1124 Recommended	3 or 4	See course descriptions	Other options: PHYC 1114, PHYC 1134, BIOL 1124, BIOL 2123
<b>Hours</b>	<b>16-17</b>		
<b><i>*Students should apply for Associate of Applied Science Mechatronics – Total Hours 63 – 64 hours.</i></b>			